REMARKS

Applicant respectfully requests reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

Status of Claims:

No claims are currently being cancelled.

Claims 4, 6, 14 and 15 are currently being amended, whereby the scope of these claims has been unaffected by such amendments.

Claims 16-18 are currently being added.

This amendment adds and amends claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claim(s) remain under examination in the application, is presented, with an appropriate defined status identifier.

After adding and amending the claims as set forth above, claims 1 and 3-6, 10, 11 and 14-18 are now pending in this application for examination on the merits, whereby claims 2, 7-9 and 12-13 are withdrawn from consideration as being directed to non-elected subject matter.

Comment Concerning Claims Presently Pending:

Please note that a preliminary amendment was filed on November 6, 2003, in which claims 3-5 were amended (to remove multiple dependencies) and in which claims 7-15 were added. Thus, claims 1, 3-6, 10, 11, 14 and 15, as well as new claims 16-18, are readable on the elected Group I.

Claim Rejections – Prior Art:

In the Office Action, claims 1 and 3-6 were rejected under 35 U.S.C. § 103(a) as being unpatentable over JP 10-011194 to Shingo in view of JP 2002-042253 to Kazuyuki. This rejection is traversed with respect to the presently pending claims under rejection, for at least the reasons given below.

The Office Action correctly recognizes that Shingo does not disclose any data check table, but it incorrectly asserts that Kazuyuki discloses this feature. Rather, Kazuyuki merely describes a system which facilitates the determination of food to be dished up on a same dish, when dishing up the same order on the same table at a restaurant. To accomplish this, the

same combination information according to a classification unit is obtained for that dish. Thus, in Kazuyuki, duplicate orders of a same dish can be provided to a table where multiple orders of that same dish have been made.

This disclosure in Kazayuki clearly has nothing at all to do with checking a data check table for the input of a sub-cooking name simultaneously with a main cooking name, and to output an error notification if the simultaneous input is not proper.

It is clear from a review of the Abstract of Kazayuki that no output of an error notification is made. Also, a machine language translation of Kazayuki, as obtained from the Japan Patent Office (JPO) web site, is included as an attachment to this response.

Accordingly, independent claim 1 is patentable over the combined teachings of Shingo and Kazayuki.

New Claims:

New claims 16-18 have been added to recite features seen best in Figure 4 of the drawings, and as described in the specification with respect to that figure. Such features are not taught or suggested by the cited art of record, when taken as a whole.

Conclusion:

Since all of the issues raised in the Office Action have been addressed in this Amendment and Reply, Applicant believes that the present application is now in condition for allowance, and an early indication of allowance is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check or credit card payment form being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

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* NOTICES *

Attachment to Response

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention]This invention relates to an order data management device.
[0002]
[Description of the Prior Art]Conventionally, in restaurants, such as a restaurant, in order to transmit the order from a customer to a cook correctly and promptly, the restaurant system is used. A restaurant system provides two or more handy terminals which a salesclerk carries separately, an order data management device, the kitchen printer installed in a kitchen etc., and the electronic cash register that installed in the accounting part, for example, enabling free communication.
[0003]In such a restaurant system, an order data management device transmits the order data which created and created order data based on the bar code by which radio was carried out from the handy terminal to an electronic cash register and a kitchen printer via LAN.
[0004]The kitchen printer is provided with the receive section which receives the order data transmitted from the order data management device, and the printing unit for carrying out the printout of the contents based on the order data received in this receive section. Although the output form of the order data from a kitchen printer changes with stores, it roughly divides and there are a gestalt which outputs order data per order, and a gestalt divided and outputted for every menu unit. When two or more same menus are ordered, there is also a kitchen printer sets the number required of the menu concerned and a menu and it was made to output.
[0005]On the occasion of actual employment, a cook cooks according to the order data by which the printout was carried out from the kitchen printer, and dishes up the cooked dish to a pan.
[0006]By the way, about dishing up of the cooked dish, there is a store which is performing employment which dishes up two or more same menus ordered simultaneously to the same pan, and employment which dishes up two or more kinds of similar menus to the same pan. As such an example of employment, like the 2 public and the 3 public, for example in a beef barbecue restaurant etc., In a yakitori store etc. in dishing up two or more same menus ordered simultaneously to the same pan, and setting them on the table, when two or more same menus are ordered ****, When two or more kinds of similar menus, such as foods grilled on skewers, are ordered two or more kinds, the employment which dishes up and sets on the table two or more kinds of menus

ordered simultaneously to the same pan is mentioned.

[0007]

[Problem(s) to be Solved by the Invention]However, since order data is outputted per an order unit or menu from a kitchen printer as mentioned above, In performing employment which dishes up two or more kinds of dishes to the same pan, The order data of the dish which it is going to dish up to the same pan, and the order data of the dish which it is going to dish up to a different pan from this pan will be intermingled, and will be outputted, and order data cannot be outputted with the target gestalt.

[0008]For this reason, when the order data received with the same table on the occasion of actual employment is order data of the dish which same-cooked or was similar, a cook will classify the dish dished up to the same pan, and we are anxious about the leakage of an oversight etc. occurring.

[0009]Since number required is outputted for every order data of each which was outputted by being intermingled in above-mentioned art, when performing employment which dishes up two or more kinds of dishes to the same pan, the dish which can be dished up to the same pan is total, and it cannot be shown what volume it has.

[0010]For this reason, on the occasion of actual employment, we cannot grasp size of the pan to be used correctly, but are anxious about the situation where cooking has not appeared in the stage dished up to the middle occurring.

[0011]In such a case, although only the part which leaked will be dished up to another pan and additional table setting will be carried out, it is apprehensive about the number of pans increasing, and stopping appearing in a table and reducing the impression to a customer.

[0012]The cooking length in a kitchen, etc. mainly direct the judgment which dishes up the dish which same-cooked or was similar to the same pan in many cases, for example, and in a newcomer with a shallow experience, judgment is difficult and we are anxious about the above inconvenience occurring more frequently.

[0013]An object of this invention is to obtain the order data management device which can carry out facilitating of the judgment of the dish dished up to the same pan, when dishing up the dish about the order data received with the same table to the same pan.

[0014]An object of this invention is to obtain the order data management device which can carry out facilitating of the judgment of the size of the pan which dishes up cooking, when dishing up the dish about the order data received with the same table to the same pan.

[0015]An object of this invention is to obtain the order data management device which can carry out facilitating of the judgment of the kind of pan which dishes up cooking, when dishing up the dish about the order data received with the same table to the same pan.

[0016]

[Means for Solving the Problem]An order data management device of the invention according to claim 1, A combination information table which memorizes combination information which specifies combination of a dish dished up to the same pan for every bar code, A reception means received from the outside by using said bar code as order data, and a combination information selecting means which acquires said combination

information corresponding to said bar code which said reception means received with reference to said combination information table, Based on said combination information which said combination information selecting means acquired, said bar code with which said same combination information was matched is classified as the same merged group, It has a printing data output means which divides printing data created based on said order data for said every same merged group, and is outputted to a kitchen printer.

[0017]Therefore, based on combination information corresponding to a bar code as order data received from the outside with reference to a combination information table, A bar code with which the same combination information was matched is classified as the same merged group, and printing data created based on order data is divided for every same merged group, and is outputted to a kitchen printer. By a thing which classified all together a dish etc. which same-cooked or were similar, for example according to this and for which the same combination information is set up for every taxonomic units. When dishing up a dish about order data received with the same table to the same pan, it becomes possible to carry out facilitating of the judgment of a dish dished up to the same pan.

[0018]In the invention according to claim 2, in the order data management device according to claim 1, said printing data output means outputs said printing data separately in said same merged-group unit.

[0019]Therefore, printing data is separately outputted in the same merged-group unit. It becomes possible to carry out facilitating of the judgment of a dish dished up to the same pan to a cook by this more.

[0020]In the order data management device according to claim 2 the invention according to claim 3, A weight table which specifies quantity of a dish which dishes up pan size information which specifies size of a pan which dishes up cooking to the same pan and which is memorized for every weight data, A weight acquisition means which acquires said weight data in said same single whole merged group, A pan size information selecting means which acquires said pan size information corresponding to said weight data which said weight acquisition means obtained with reference to said weight table, A preparation and said printing data output means output said printing data which gave said pan size information which said pan size information selecting means acquired for said each same merged group of every.

[0021]Therefore, with reference to a weight table, printing data in which pan size information corresponding to weight data in the same single whole merged group was given for said each same merged group of every is outputted. When dishing up a dish about order data which received weight data according to the contents, number required, etc. of cooking with the same table by matching with pan size information, for example to the same pan by this, it becomes possible to carry out facilitating of the judgment of size of a pan which dishes up cooking.

[0022]In the order data management device according to claim 1, 2, or 3 the invention according to claim 4, A **** table which memorizes pan species information which specifies a kind of pan which dishes up cooking for said every combination information, Having a pan species information selecting means which acquires said pan species information corresponding to said combination information with reference to said **** table, said printing data output means outputs said printing data which gave said pan species information which said pan species information selecting means acquired for said each same merged group of every.

[0023]Therefore, printing data in which pan species information acquired with reference to a **** table was

given for each same merged group of every is outputted. When dishing up a dish about order data received with the same table by setting up pan species information for every combination information to the same pan by this, it becomes possible to carry out facilitating of the judgment of a kind of pan which dishes up cooking.

[0024]

[Embodiment of the Invention]A first embodiment of this invention is described based on drawing 1 thru/or drawing 8. By this embodiment, it is used in restaurants, such as a restaurant, and a restaurant system provided with the station which manages the accepted order is explained.

[0025]Drawing 1 is a ** type figure showing the restaurant system of the 1 embodiment of this invention. The restaurant system 1, The radio set 4 installed by two or more handy terminals 3 and Hitoshi Amai of a store who a salesclerk carries separately and receive the input of the bar code 2 (refer to drawing 3), POS terminal 5 for accounting service, two or more kitchen printers 6 (this embodiment two sets) allocated by each position of the kitchen, It comprises station 8 grade as an order data management device which manages various data, such as the customer printer 7 and account data from the POS-terminal 5 side. Wired connection of POS terminal 5, the kitchen printer 6, the customer printer 7, and the station 8 is carried out by LAN cable 10. Wireless connection of the handy terminal 3 and the radio set 4 is carried out.

[0026]In this embodiment, in order to identify goods (this embodiment dish), let the coded information peculiar to each goods be the bar code 2.

[0027]Although not illustrated in particular, each kitchen printer 6 is provided with the following.

The receive section which receives the printing data 35 (refer to drawing 6) outputted from the station 8 by the printing data combination processing mentioned later.

The printing unit which prints based on the printing data 35 received in the receive section.

The kitchen printer identification number 9 (refer to drawing 3) for identifying each is given to each kitchen printer 6.

[0028]The keyboard 12 grade which has the indicator 11 formed by LCD (Liquid Crystal Display), CRT (Cathode RayTube), etc. and various kinds of operation keys is provided in the station 8 (refer to drawing 2).

[0029]Here, drawing 2 is a block diagram showing the electrical link of each part with which the station 8 is provided. The station 8 builds in Microcomputer(henceforth microcomputer)13 which carries out drive controlling of each part in the station 8, and this microcomputer 13 carries out drive controlling of each part in the station 8. The microcomputer 13 each part via the bus lines 15, such as an address bus and a data bus, to CPU(Central Processing Unit) 14 which carries out drive controlling intensively, ROM(ReadOnly Memory) 16 which stores the fixed data of a boot program etc. beforehand, and RAM(Random Access Memory) 17 which memorize various data enabling free rewriting are connected and constituted. In RAM17, besides various tables, such as the pan size table 19 (refer to drawing 4) as the goods data table 18 (refer to drawing 3) and weight table as a combination information table and a **** table, The various memory areas for data processing, such as the order data storage area 20 (refer to drawing 5) where the order data table 29 mentioned later is memorized, are secured. According to this embodiment, RAM17 is backed up by the battery which is not illustrated.

[0030]Although the various tables of the goods data table 18 grade were memorized in this embodiment to

RAM17 backed up with the battery, It may be made to memorize not the thing to restrict to this but various tables to EPROM (Erasable and Programmable ROM) etc.

[0031]The LAN interface 32 for delivering and receiving various data between each device by which wired connection was mutually carried out with POS terminal 5, the radio set 4, and LAN cable 10 of the kitchen printer 6 grade is connected to the bus line 15 connected to CPU14. The LAN interface 32 functions as a reception means which receives the order data received by the handy terminal 3 via the radio set 4.

[0032]The indicator 11 is connected to the bus line 15 connected to CPU14 via the display control circuit 33. If the indicative data from the microcomputer 13 is inputted into the display control circuit 33, the indicator 11 will be driven by the display control circuit 33, and will display a given item.

[0033]The keyboard 12 is connected to the bus line 15 connected to CPU14 via the input control circuit 34. The keyboard 12 outputs the signal according to the operated key to the microcomputer 13 by operation of the input control circuit 34.

[0034]By the way, among the various tables memorized by RAM17, as shown in drawing 3, the commodity data 21 of a large number set up for every goods is memorized by the goods data table 18. Every bar code 2, the dish name 22, the unit price 23, the output destination change printer data 24, the merge data 25 as combination information, the pan seed data 26 as pan species information, and the various data of code weight-data 27 grade are matched, and each commodity data 21 is constituted.

[0035]It is data for specifying the kitchen printer identification number 9 in which the output destination change printer data 24 is peculiar to the kitchen printer 6 which is an output destination change of order data here.

[0036]In the merge data 25, it is data for specifying the combination of the dish dished up to the same pan. The merge data 25 is set up every bar code 2 according to the contents of cooking, for example, the same merge data 25 is set up for every taxonomic units classified for every similar dish or foods like meat, fishes, and vegetables. In this embodiment, on specific menus, such as vegetables. The bar code 2 to which the merge data 25 of "0" is set and the merge data 25 of these "0" was set will be unconditionally memorized by the order data table in the unit of the bar code 2, if an order is accepted by the handy terminal 3.

[0037]The pan seed data 26 is data which specifies the kind of pan which dishes up the cooked dish, and is set up every merge data 25. The pan seed data 26 as pan species information in which the pan seed data 26 shows a square-shaped pan to the pan which the pan seed data 26 which shows a circular pan to the pan which dishes up meat, for example is matched, and dishes up fishes is matched.

[0038]The code weight data 27 are set up every bar code 2 according to the area etc. which occupy a pan, when it dishes up based on volume, shape, etc. for every dish. For example, the big code weight data 27 are set to a dish which spreads in a plane direction softly.

[0039]To the pan size table 19, among the various tables memorized by RAM17. As shown in drawing 4, it is matched with every [as weight data mentioned later] group weight data W, and the pan size data 28 as pan size information which specifies the size of the pan used on the occasion of dishing up is matched and memorized.

[0040]It is data which specifies the size of the pan which dishes up cooking in the pan size data 28 here, and is data which specifies the size of the pan which dishes up the dish classified into the same merged group 31

classified in the printing data combination processing mentioned later.

[0041]It is data which specifies the quantity of the dish dished up to the same pan as the group weight data W. According to this embodiment, according to the group weight data W computed in the printing data combination processing mentioned later, either of three kinds of sizes of smallness is pinpointed into size.

[0042]In addition, the order data table 29 which accepted the order as shown in drawing 5 for every table is memorized among the various memory areas memorized by RAM17 in the order data storage area 20. In each order data table 29, the bar code 2 which the handy terminal 3 received via the radio set 4, the dish name 22, and its number required 30, Based on the merge data 25 corresponding to each received bar code 2, it memorizes every same merged group 31 classified every same merge data 25. The pan seed data 26, the pan size data 28, and the output destination change printer data 24 are matched with each same merged group 31, respectively.

[0043]In the above-mentioned restaurant system 1, it is received by operators, such as a salesclerk, with the radio set 4, and the order data outputted from the handy terminal 3 is received via the LAN interface 32 at the station 8, for example. At the station 8, the printing data 35 (refer to drawing 6) is created with reference to the goods data table 18 based on the received order data. The created printing data 35 is outputted towards the kitchen printer 6 to which the kitchen printer identification number 9 specified with the output destination change printer data 24 contained in the printing data 35 was given. The kitchen printer 6 prints by the printing unit mentioned above based on the printing data 35 received in the receive section which mentioned above.

[0044]Here, drawing 6 is a mimetic diagram showing the data structure of the printing data 35 outputted towards the kitchen printer 6. As shown in drawing 6, the printing data 35, The end of the check printing data 36 which is contents which the check 42 (refer to drawing 8) is made to print, the printing command 37 in which this check printing data 36 is the printing data 35 and which carries out thing specification, the address information 38 which specifies the kitchen printer 6 which makes the check printing data 36 print, and the printing data 35. It is constituted by the shown completion code 39 grade. The dish name 22 according to which the check printing data 36 was classified every merge data 25, and its number required 30, The subject constitutes the pan seed data 26 and the pan size data 28 which dish up this dish, and check No.40 which specifies the check 42, and table No.41 which specify the table which accepted the order are combined with each printing data 35.

[0045]Next, the processing which CPU14 performs based on the control program stored in ROM16 is explained with reference to drawing 7. Drawing 7 is a flow chart which shows printing data combination processing roughly among the processings which CPU14 performs based on the control program stored in ROM16. In printing data combination processing, it stands by until it judges that the order data outputted from the handy terminal 3 was received (S1).

[0046]The merge data 25 and the pan seed data 26 corresponding to the bar code 2 which constitutes order data from Step S1 with reference to the goods data table 18 if it judges that the order data outputted from the handy terminal 3 was received (Y of S1) are acquired (S2). In Step S2, the function as a combination information selecting means and a pan species information selecting means is performed here.

[0047]In addition, the merge data 25 acquired at Step S2 judges whether it is "0" (S3).

[0048]When it is judged at Step S3 that the merge data 25 acquired at Step S2 is not "0", (N of S3), In the same merged group 31 where the order data storage area 20 memorized by RAM17 is searched and that starts that order data all over this order data storage area 20, It is judged whether there is the same merged group 31 with which the same merge data 25 as the bar code 2 which constitutes order data is matched (S4).
[0049]By step S4, in the same merged group 31 that starts the order data all over the order data storage area 20, When it is judged that there is no same merged group 31 with which the same merge data 25 as the bar code 2 which constitutes order data is matched, (N of S4), The bar code 2 is memorized to the same merged group 31 that newly created the same merged group 31 that memorizes the bar code 2 judged that there is no same merged group 31 with which the same merge data 25 is matched, and newly created it (S5).
[0050]On the other hand, by step S4 in the same merged group 31 that starts the order data all over the order data storage area 20, When it is judged that there is the same merged group 31 with which the same merge data 25 as the bar code 2 which constitutes order data is matched, (Y of S4), Additional memory of the bar code 2 judged that there is the same merged group 31 with which the same merge data 25 is matched is carried out at the same merged group 31 with which the same merge data 25 is matched (S6).
[0051]The same new merged group 31 once created at Step S5, When it is considered as the same merged group 31 of after that existing, the following bar code 2 is classified and there is the bar code 2 with which the same merge data 25 was matched, the bar code 2 is classified into the same single merged group 31.
[0052]Then, based on the code weight data 27 and the number required 30 which were matched with each bar code 2, the group weight data W are acquired every same merged group 31 (S7). The function as a weight acquisition means is performed in Step S7 here.
[0053]Here, the example is explained about calculation of the group weight data W in Step S7. For example, the group weight data W (shown in [W] ** type.) can be asked with the following expression.
w(x) -- =NxY (n) ... ** -- here, w shows the code weight for every ordered bar code 2, and x shows the number of goods according to which it was classified into the same merged group 31. N shows the number required 30 for every bar code 2. Y (n) shows the code weight data 27 for every bar code 2.
[0054]Next, the weight acquired by ** type every bar code 2 is added every same merged group 31, and the group weight data W are obtained.
W=w(1)+w (2) + ... +w(x-1)+w(x) ... **[0055]When it is judged at Step S3 that the merge data 25 acquired at Step S2 is "0", by the way, (Y of S3), It memorizes independently, without making it belong to any same merged group 31 (S8), and the merge data 25 is not concerned with the existence of other bar codes 2 which are "0", but computes the group weight data W every independent bar code 2 by **' type (S9). The function as a weight acquisition means is performed in step S9 here.
W=Y (n) ... **'[0056]By Step S7 or step S9, if the group weight data W are computed by ** type, ** type, or **' type, with reference to the pan size table 19, the pan size data 28 corresponding to the computed group weight data W will be acquired (S10). In Step S10, the function as a pan size information selecting means is performed here.
[0057]In this embodiment, when the group weight data W were computed by step S9, acquired the pan size data 28 corresponding with reference to the pan size table 19 at Step S10, but. It may be made to acquire the

pan size data 28 directly, without not the thing to restrict to this but the merge data 25 computing the group weight data W about the bar code 2 which is "0."

[0058]It repeats until it judges that the processing from Step S2 to Step S10 was ended about all the bar codes 2 which are Step S11 and were received (Y of S11) (N of S11).

[0059]At Step S11, when it is judged that it ended about all the received bar codes 2, with reference to (Y of S11), and the order data storage area 20, the printing data 35 (refer to drawing 6) is created every merge data 25 (S12).

[0060]And the printing data 35 created at Step S12 is turned to the specific kitchen printer 6, and is outputted (S13). In Step S13, the function as a printing data output means is performed here from Step S2.

[0061]Since the address information 38 is contained in each printing data 35 outputted from the station 8 at Step S13, the target kitchen printer 6 can be specified by this address information 38.

[0062]If the kitchen printer 6 receives the printing data 35 outputted from the station 8 in a receive section. Based on this printing data 35, as shown in drawing 8, the check 42 which is divided every same merged group 31 and by which order data was printed is outputted.

[0063]Here, drawing 8 is a front view showing the check 42 outputted from the kitchen printer 6. By creating the printing data 35 every same merged group 31 based on the received bar code 2, as shown in drawing 8, the check 42 is outputted every same merged group 31. Since check No.40 and table No.41 are attached, respectively, when dishing up two or more kinds of dishes to the same pan, the check 42 can be attached to each outputted check 42 for every pan. Also when the pan which two or more kinds of dishes can dish up moves in a kitchen by this, the table which accepted the order, the contents of cooking which should be dished up to a single pan, etc. can be made to grasp easily.

[0064]Based on the merge data 25 corresponding to the bar code 2 received from the outside with reference to the goods data table 18 here, By turning to the kitchen printer 6 the printing data 35 in which the same merge data 25 was matched and which carried out the group division as the same merged group 31, and was created every bar code 2, and outputting it, For example, by the thing which classified all together the dish etc. which same-cooked or were similar and for which the same merge data 25 is set up for every taxonomic units, when dishing up the dish about the order data received with the same table to the same pan, facilitating of the judgment of the dish dished up to the same pan can be carried out. While aiming at improvement in the working efficiency for [with this] dishing up of cooking to the store side, since it ends with one table setting, shortening of the time to the completion of table setting can be aimed at. To the visitor side, improvement in services, such as reduction of a table setting space and shortening of time until cooking comes out fully, can be aimed at.

[0065]Facilitating of the judgment of the dish dished up to the same pan can be carried out more to a cook by dividing and outputting the printing data 35 every same merged group 31.

[0066]By outputting the printing data 35 which combined the pan size data 28 corresponding to the group weight data W acquired every same merged group 31 with reference to the pan size table 19, For example, by matching the group weight data W according to the contents, number required, etc. of cooking with the pan size data 28, when dishing up the dish about the order data received with the same table to the same pan,

facilitating of the judgment of the size of the pan which dishes up cooking can be carried out. Also when many dishes which same-cooked or were similar are ordered by this, it can dish up to the pan of suitable size suitably.

[0067]By in addition, the thing for which the pan seed data 26 is set up every merge data 25 by outputting the printing data which combined the pan species information corresponding to the merge data 25 acquired with reference to the goods data table 18 for every same merged group. When dishing up the dish about the order data received with the same table to the same pan, facilitating of the judgment of the kind of pan which dishes up cooking can be carried out. Also when deciding and employing the pan dished up, for example for every dish by this, improvement in the working efficiency for dishing up of cooking can be aimed at without needing a cook's experience, thinking, etc.

[0068]Next, a second embodiment of this invention is described with reference to drawing 9 thru/or drawing 11. This embodiment is the point of differing from a first embodiment in that the decision criterion which specifies pan size is the sum total of the number required for every same merged group instead of the group weight data W. Identical codes show the first embodiment and identical parts, and they also omit explanation.

[0069]Drawing 9 is a mimetic diagram showing the file structure of the goods data table of a second embodiment of this invention. Every bar code 2, the various data of the dish name 22, the unit price 23, the output destination change printer data 24, the merge data 25, and the pan seed data 26 is matched, and each commodity data 51 in the goods data table 50 is constituted.

[0070]Drawing 10 is a mimetic diagram showing a pan size table. The pan size data 28 is matched with the group number required C as weight data which are the sum total of the number required computed every same single merged group 31 by the pan size table 52, and is memorized.

[0071]Although not illustrated in particular, in this embodiment, the group number required count area which counts the group number required C is secured for every same merged group as various memory areas for data processing.

[0072]Next, the processing which CPU14 performs based on the control program stored in ROM16 is explained with reference to drawing 11. Drawing 11 is a flow chart which shows printing data combination processing roughly among the processings which CPU14 performs based on the control program stored in ROM16. In printing data combination processing, the processing from Step T1 to Step T6 performs the same processing as processing from Step S1 of drawing 7 to Step S6.

[0073]If the bar code 2 is classified into the same single merged group 31 according to Step T5 or Step T6, whenever it will classify the bar code 2 into the same single merged group 31 according to it, the counted value of an applicable group number required count area is **********ed. the counted value of a group number required count area applicable when one order of a certain menu is accepted at this time -- "1" -- the counted value of a group number required count area applicable when it **********s and two orders of the same menu are accepted -- "2" -- it **********s. According to this embodiment, the group number required C doubles and counts when classifying the bar code 2. The function as a weight acquisition means is performed in Step T7 here.

[0074]If the group number required C is acquired at Step S7 according to number required, with reference to

the pan size table 52, the pan size data 28 corresponding to the acquired group number required C will be acquired (T8). In Step T8, the function as a pan size information selecting means is performed here.

[0075]By the way, it memorizes independently, without not concerning (Y of T3), and the merge data 25 with the existence of other bar codes 2 which are "0", but making it belong to any same merged group 31 by step T3, when it is judged that the merge data 25 acquired at Step T2 is "0" (T9).

[0076]About the bar code 2 which is "0", the merge data 25 makes group number required C "1", without performing the count of the group number required C, and acquires the pan size data 28 corresponding with reference to the pan size table 52 directly (T8).

[0077]Henceforth, the processing as Step S11 to the step S13 of drawing 7 that Step T10 to the step S12 is the same is performed.

[0078]According to this embodiment, since it is not necessary to set up peculiar data every bar code 2 like the code weight data 27, it enables them for a salesclerk etc. to save the time and effort which sets up the code weight data 27 separately, and to carry out facilitating of the operation on actual employment. Since it is not necessary to compute the group weight data W, it becomes possible to aim at improvement in processing speed.

[0079]

[Effect of the Invention]According to the order data management device of the invention according to claim 1, a combination information table is referred to, Based on the combination information corresponding to the bar code as order data received from the outside, By classifying the bar code with which the same combination information was matched as the same merged group, dividing the printing data created based on order data for every same merged group, and outputting to a kitchen printer, For example, by the thing which classified all together the dish etc. which same-cooked or were similar and for which the same combination information is set up for every taxonomic units, when dishing up the dish about the order data received with the same table to the same pan, facilitating of the judgment of the dish dished up to the same pan can be carried out. While aiming at improvement in the working efficiency for [with this] dishing up of cooking to the store side, since it ends with one table setting, shortening of the time to the completion of table setting can be aimed at. To the visitor side, improvement in services, such as reduction of a table setting space and shortening of time until cooking comes out fully, can be aimed at.

[0080]According to the invention according to claim 2, in the order data management device according to claim 1, facilitating of the judgment of the dish dished up to the same pan can be carried out more to a cook by outputting printing data separately in the same merged-group unit.

[0081]In [according to the invention according to claim 3] the order data management device according to claim 2, By outputting the printing data which gave the pan size information corresponding to the weight data in the same single whole merged group for said each same merged group of every with reference to a weight table, For example, by matching the weight data according to the contents, number required, etc. of cooking with pan size information, when dishing up the dish about the order data received with the same table to the same pan, facilitating of the judgment of the size of the pan which dishes up cooking can be carried out. Also when many dishes which same-cooked or were similar are ordered by this, it can dish up to the pan of suitable

size suitably.

[0082]In [according to the invention according to claim 4] the order data management device according to claim 1, 2, or 3, By setting up pan species information for every combination information by outputting the printing data which gave the pan species information acquired with reference to the **** table for each same merged group of every. When dishing up the dish about the order data received with the same table to the same pan, facilitating of the judgment of the kind of pan which dishes up cooking can be carried out. Also when deciding and employing the pan dished up, for example for every dish by this, improvement in the working efficiency for dishing up of cooking can be aimed at without needing a cook's experience, thinking, etc.

[Translation done.]